



Living and Working in Space

International Space Station Overview





April 18, 2004 10:19 pm CDT
Baikonur Cosmodrome, Kazakhstan

Launch of Expedition 9



Mike Fincke
Flight Engineer and
NASA Science Officer

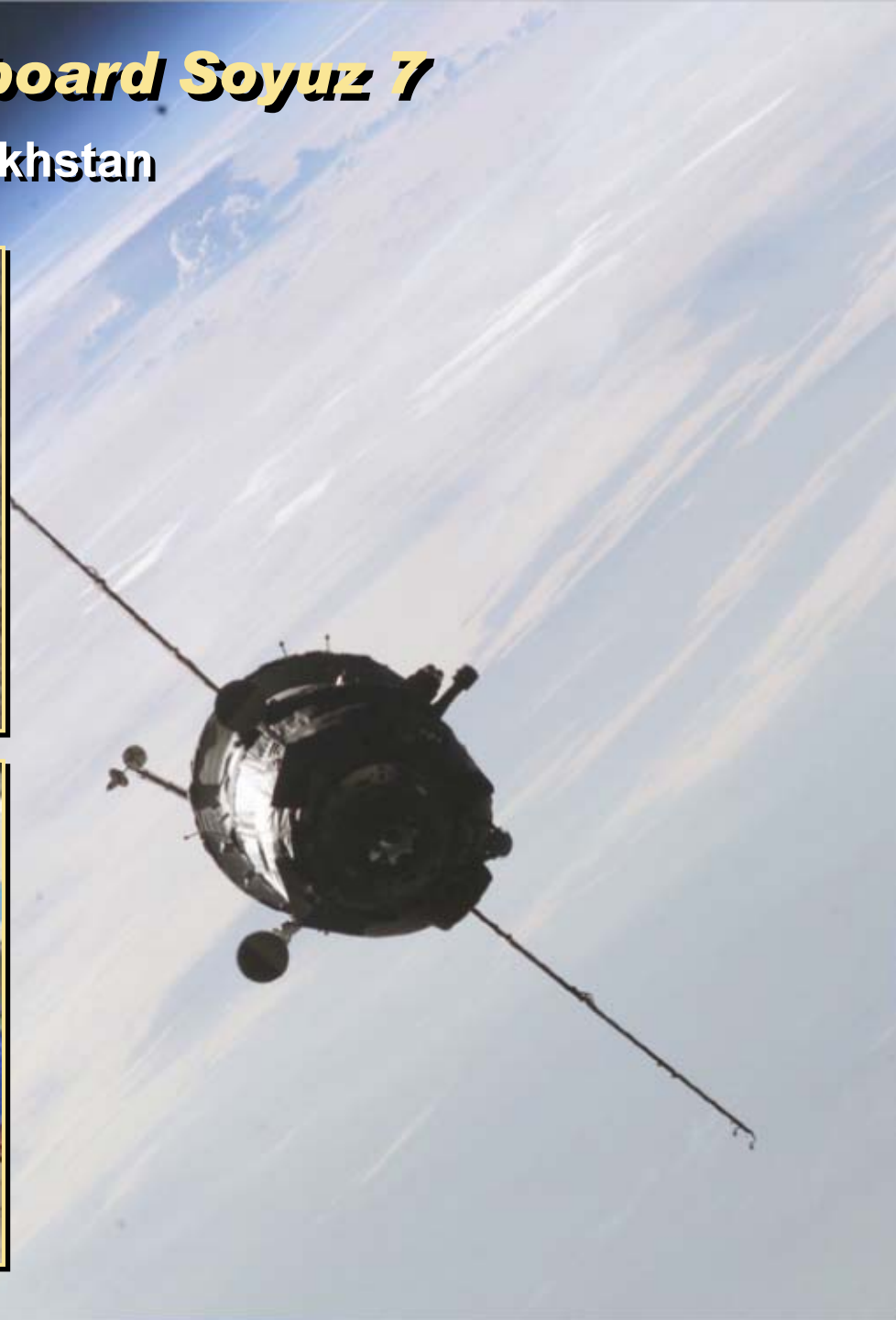
Gennady Padalka
Commander



Crew Exchange

Return of Expedition 8 aboard Soyuz 7

April 29, 2004 7:12 pm CDT - Kazakhstan



International Space Station

A human outpost in space bringing nations together
for the benefit of life on Earth... and beyond.

We will make revolutionary discoveries
and establish a permanent international
presence of humans in space, to advance
the exploration of the solar system and
enable commerce in space.

Program



Vision

International Space Station

Safely build, operate, and utilize a continuously inhabited orbital research facility through a partnership of governments, industries, and academia.



Program

Mission

The International Space Station is more powerful, and 4 times larger, than any human space craft ever built.

It is 171 ft. long, 240 ft. wide (solar array larger than the wingspan of a 777), 90 ft. high, weighs 197 tons (400,000 lbs.) and has 15,000 cubic feet of habitable living space (equivalent to a 3 bedroom house).

ISS plans include micro gravity science laboratories from four space agencies. U.S. Lab "Destiny" operating since Feb. 2001.

ISS flies in an orbital inclination of 51.6 degrees, approximately 240 miles above the Earth, in a path that covers 90% of the world's population. It is visible to the naked eye.

ISS travels at the speed of 17,500 miles per hour, and covers the equivalent distance to the Moon and back in a day.

ISS Multi-dimensional challenges

A photograph of the International Space Station (ISS) in orbit above Earth. The station's complex structure, including its large solar panel arrays, is clearly visible against the bright blue and white clouds of the planet. The perspective is from a slightly elevated angle, showing the station's horizontal and vertical components.

Integrating International Partners

Engineering Excellence

Prioritizing Science

24/7 Space Operations

Organization, Budget, and People

***Over 100 people have visited the ISS so far,
17% for the second time.***





16 International Participants

5 International Partners



United States



Russia



Canada



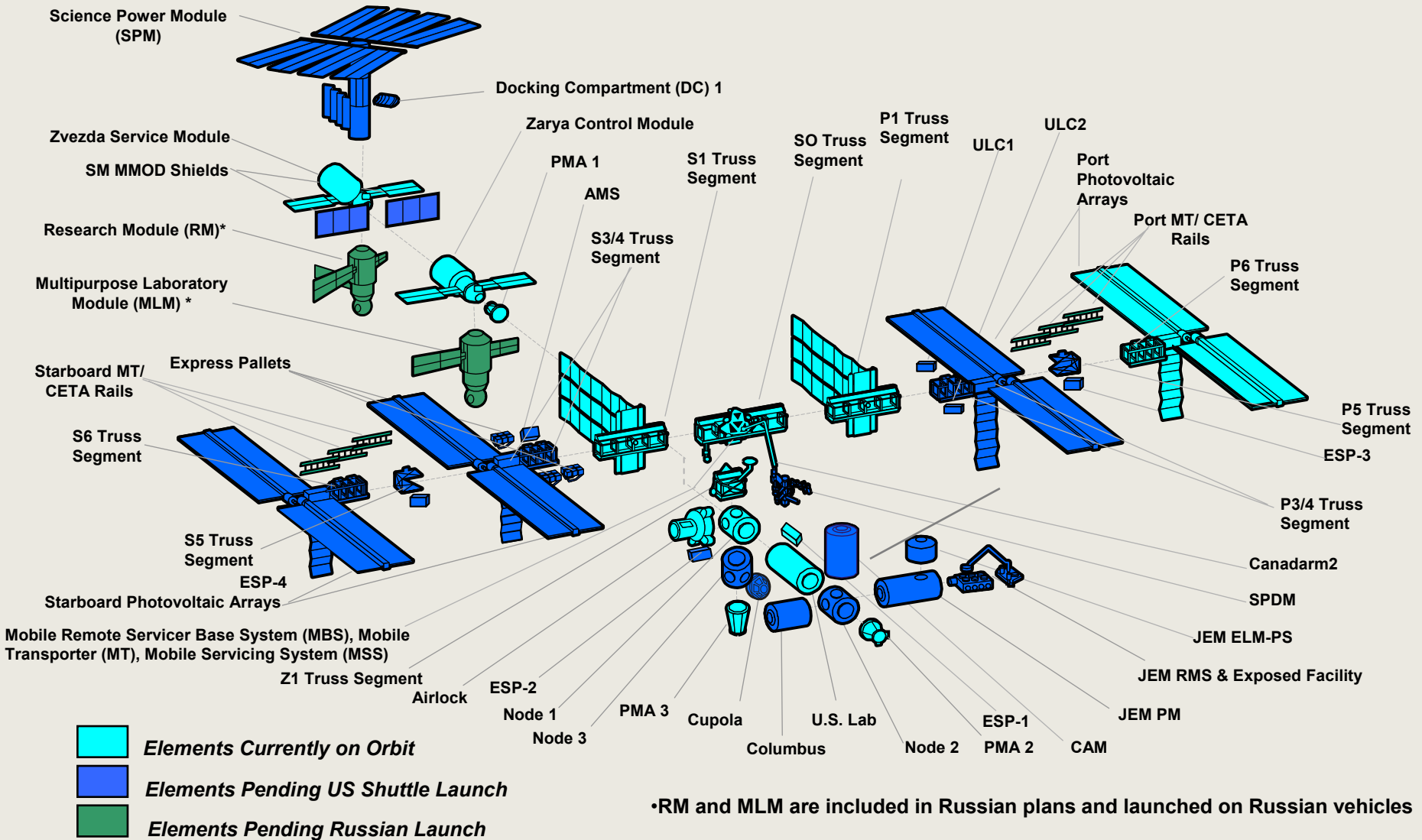
Europe



Japan

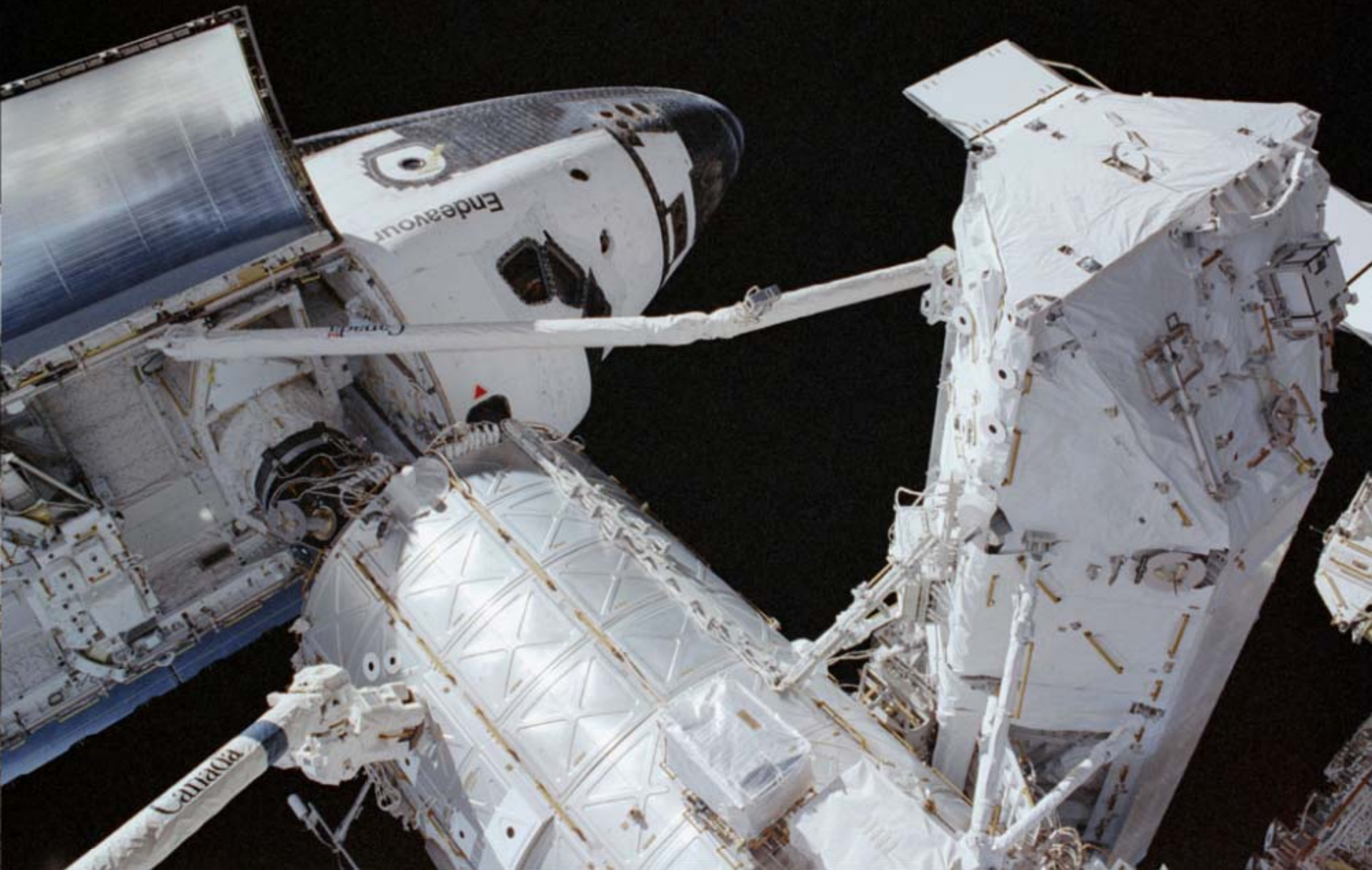
ISS Technical Configuration

Endorsed by ISS Heads of Agency on July 23, 2004



•RM and MLM are included in Russian plans and launched on Russian vehicles

Integrated Engineering in Space





Elements are invented around the world and come together in space with hairline tolerance